Title (en)
GUARANTEED QUALITY OF SERVICE IN SYSTEM-ON-A-CHIP UNCORE FABRIC

Title (de)
GARANTIERTE DIENSTGÜTE EINER UNCORE-MATRIX IN EINEM SYSTEM-AUF-CHIP

Title (fr)
QUALITÉ DE SERVICE GARANTIE DANS UN TISSU HORS-COEUR D'UN SYSTÈME-SUR-PUCE

Publication
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Application
EP 15874061 A 20151128

Priority
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Abstract (en)
[origin: WO2016105863A1] In an example, a control system may include a system-on-a-chip (SoC), including one processor for real-time operation to manage devices in the control system, and another processor configured to execute auxiliary functions such as a user interface for the control system.. The first core and second core may share memory such as dynamic random access memory (DRAM), and may also share an uncore fabric configured to communicatively couple the processors to one or more peripheral devices. The first core may require a guaranteed quality of service (QoS) to memory and/or peripherals. The uncore fabric may be divided into a first "real-time" virtual channel designated for traffic from the first processor, and a second "auxiliary" virtual channel designated for traffic from the second processor. The uncore fabric may apply a suitable selection or weighting algorithm to the virtual channels to guarantee the QoS.

IPC 8 full level
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CPC (source: CN EP US)
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